

L Number	Hits	Search Text	USOCR	Time stamp
-	1168	(emulsion adj polymerization) same emulsifier	USOCR	2003/01/21 12:38
-	248	(emulsion ADJ polymerization) same (wetting NEAR agent)	USOCR	2003/01/21 12:54
-	0	((emulsion ADJ polymerization) and ((wetting adj agent) with (parts or pt pts percent or percentage or "%"))).ab,ti. and acrylic and emulsifier	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 13:02
-	1430	acrylic and emulsifier and ((emulsion ADJ polymerization).ab,ti. ((wetting adj agent) with (parts or pt pts percent or percentage or "%")))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 13:02
-	4	(emulsion ADJ polymerization).ab,ti. and ((wetting adj agent) with (percent or percentage or "%"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 13:04
-	8	(emulsion ADJ polymerization).ab,ti. and ((wetting adj agent) with (parts or pt pts percent or percentage or "%"))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/21 13:05

DERWENT-ACC-NO: 1985-064537
DERWENT-WEEK: 198511
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TITLE: Amphoteric surfactant useful as emulsifier - obtd.
by e.g. reacting
ethylene oxide with an alcohol, reacting with
epihalohydrin, treating with
alkali, adding an ester etc.

PATENT-ASSIGNEE: TOHO CHEM IND CO LTD[TOHR]

PRIORITY-DATA: 1983JP-0126188 (July 13, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
JP 60019030 A	January 31, 1985	N/A
005	N/A	
JP 92012262 B	March 4, 1992	N/A
007	N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 60019030A	N/A	1983JP-0126188
July 13, 1983		
JP 92012262B	N/A	1983JP-0126188
July 13, 1983		

INT-CL (IPC): B01F017/42; B01F017/46 ; C07C227/26 ;
C07C229/12 ;
C11D001/90

ABSTRACTED-PUB-NO: JP 60019030A

BASIC-ABSTRACT: Amphoteric surfactant of formula (I) is
new. In (I), R is
8-24C alkyl or alkenyl; R' is ethylene or propylene gp.; n
is an integer of
1-50; and R'' is 5C or lower alkyl.

To produce (I), (1) 1-50 mol of ethylene oxide or a mixt.
of ethylene oxide and
propylene oxide is added to 1 mol of 8-24C alcohol to

obtain polyoxyalkylene
alkyl ether or polyoxy alkylene alkenyl ether, (2) 1 mol of
epihalohydrin is
reacted with 1 mol of the ether, to convert its terminal OH
to -OCH₂CH(OH)CH₂X
(X; halogen), (3) after 5C or lower alkyl amine is reacted
with the prod. it is
treated with alkali to convert the terminal X to -N-R'',
(4) acrylic acid lower
alcohol ester is added to the prod. of step (3), and (5)
the prod. is
hydrolysed and neutralised.

ADVANTAGE - (I) is a new cpd. that is useful as an
emulsifier, surfactant, etc.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

AMPHOTERIC SURFACTANT USEFUL EMULSION OBTAIN REACT ETHYLENE
OXIDE ALCOHOL REACT
EPIHALOHYDRIN TREAT ALKALI ADD ESTER

DERWENT-CLASS: A25 A97 E16 J02

CPI-CODES: A05-H03; A05-H04; A10-E01; A12-W11; E10-B02E;
J02-A03;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H1	H103	H181	H4	H401	H481	H5	H582	H583	H584
H589	H721	H8	J0	J011	J1	J171	M210	M211	M212
M213	M214	M215	M220	M222	M223	M224	M225	M226	M231
M232	M233	M272	M273	M281	M312	M313	M321	M322	M323
M331	M332	M342	M343	M381	M383	M391	M392	M393	M416
M620	M710	M903	Q616						

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0013 3002 0231 1279 2000 2002 2008 2014 2178
2179 2180 2197 2198

3273 1588 1592 1602 1606 2073 2124 1590 1604 2122

Multipunch Codes: 014 028 039 04- 147 198 200 231 24& 240
244 31- 334 336 347

359 50& 59& 623 624 680 688 720 722 014 028 034 04- 147 198
200 231 24& 240 244